Ohio's Surface Water Monitoring Design in the 3rd Millennium: The Age of the TMDL

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Aquatic Bioassessments by Ohio EPAThe Integrated Biosurvey

Where

- Mainly rivers, streams, and small waterways
- In use and development for Lake Erie, Ohio River, and wetlands

What

- Fish, macroinvertebrates, physical habitat
- Sediments, water quality, fish contamination
- Chlorophyll

Why

- Provide empirical information for water quality management and decision-making
- Determine status of Ohio's aquatic resources
- Assure that waters are correctly classified

THE FRAMEWORK: Ohio's Watershed Assessment Units (USGS 11-digit Hydrologic Units)



Ohio's Large River Assessment Units

(23 Rivers with > 500 mi² watersheds)



Ohio TMDL Process Overview

- 1. Design survey
- 2. Collect data
- 3. Assess data
- Define goal
- 5. Develop targets
- Select scenario
- 7. Prepare plan
- 8. Submit report
- 9. Implement internally
- 10. Implement externally
- 11. Annual validation
- 12. Check status





























